



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Serial No.: 09/425,401 Confirmation No.: 9510
Applicant: John S. Yates, Jr., et al.
Title: PROFILING PROGRAM EXECUTION TO IDENTIFY FREQUENTLY-
EXECUTED PORTIONS AND TO ASSIST BINARY TRANSLATION
Filed: October 22, 1999
Art Unit: 2124
Examiner: John Chavis

Atty Docket: 114596-09-4016
Customer No. 38492

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

1. In accordance with 37 C.F.R. §§1.56, 1.97 and 1.98, Applicant wishes to make of record the enclosed items, as listed on the accompanying Form PTO-1449. Applicant respectfully requests the Examiner to fully consider the items and independently ascertain their teaching before issuance of the next action, and to make them of record in the file. The Examiner is also requested to initial and return a copy of the enclosed Form PTO-1449 to evidence such consideration.

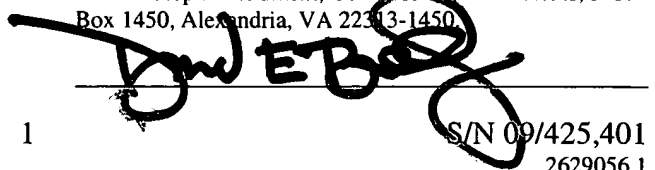
2. The references listed on the enclosed Form 1449 are references that have come to light in applications listed in the Information Disclosure Statement of February 2002. Applicant has not reviewed all of them in detail. Of those that have been reviewed, it is believed that the most pertinent are those provided in the IDS' of December 1999 and February 2002. However, in an abundance of caution, Applicant requests that all references be considered.

3. For non-patent items listed on the enclosed Form PTO-1449 for which a copy is not already made of record in this application, a copy was previously cited by or submitted to the Patent and Trademark Office in application Serial No. 09/239,194, filed January 28, 1999, Yates et al., Executing Programs for a First Computer Architecture on a Computer of a Second Architecture, or in application

08/24/2004 WASFAW1 00000049 232405 09425401

01 FC:1806 180.00 DA

I certify that this correspondence, along with any documents referred to therein, is being deposited with the United States Postal Service on August 20, 2004 as First Class Mail in an envelope with sufficient postage addressed to Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.


S/N 09/425,401
2629056.1

Serial No. 09/322,443, filed May 28, 1999, Reese et al., Profiling of Computer Programs Executing in Virtual Memory Systems.

4. Applicant has listed publication dates on the attached Form PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated. Applicant reserves the right to establish the patentability of the claims over any information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered. This Information Disclosure Statement should not be construed as a representation that information more material to the examination of this application does not exist.

5. This Information Disclosure Statement is being filed before the mailing date of a final action under 37 C.F.R. § 1.113, or a Notice of Allowance under 37 C.F.R. § 1.311 (where there has been no prior final action), or an action that otherwise closes prosecution in the application. Kindly charge the fee under 37 C.F.R. §1.97(c)(2) and 37 C.F.R. §1.17(p), \$ 180.00, to Deposit Account 23-2405, Order No. 114596-09-4016.

6. The Commissioner is hereby authorized to charge any additional fees that may be required for this Information Disclosure Statement, or credit any overpayment, to Deposit Account No. 23-2405, Order No. 114596-09-4016.

Respectfully submitted,

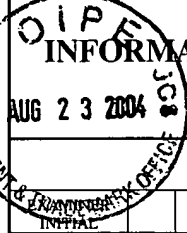

WILLKIE FARR & GALLAGHER LLP

Dated: August 20, 2004

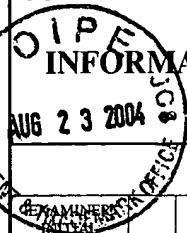
By: 

David E. Boundy
Registration No. 36,461

WILLKIE FARR & GALLAGHER LLP
787 Seventh Ave.
New York, New York 10019
(212) 728-8000
(212) 728-8111 Fax

| | | | | | | | |
|--|-----------------|--|--|---|----------|-------------------------------|--|
| FORM PTO-1449 | | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | | ATTY. DOCKET NO. 114596-09-4016 | | SERIAL NO. 09/425,401 | |
|  INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) | | | | APPLICANT John S. Yates, Jr., et al. | | | |
| | | | | FILING DATE October 22, 1999 | | GROUP ART UNIT 2124 | |
| U.S. PATENT DOCUMENTS | | | | | | | |
| INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE | |
| | 3,544,969 | 12/01/1970 | Rakoczi | 340 | 172.5 | Nov. 27, 1967 | |
| | 3,781,823 | 12/25/1973 | Senese | 340 | 172.5 | July 28, 1972 | |
| | 4,084,235 | 04/11/1978 | Hirtle | 364 | 200 | Apr. 14, 1975 | |
| | 4,412,303 | 10/25/1983 | Barnes | 712 | 16 | Oct. 25, 1983 | |
| | 4,455,602 | 06/19/1984 | Baxter | 364 | 200 | May 22, 1981 | |
| | 4,514,803 | 04/30/1985 | Agnew | 364 | 200 | Apr. 26 1982 | |
| | 4,575,797 | 03/11/1986 | Gruner | 364 | 200 | May 22, 1981 | |
| | 4,636,940 | 01/1987 | Goodwin | 717 | 128 | Dec. 20, 1985 | |
| | 4,750,112 | 06/07/1988 | Jones | 364 | 200 | Feb. 10, 1984 | |
| | 4,779,187 | 10/18/1988 | Letwin | 712 | 229 | Apr. 10, 1985 | |
| | 4,812,975 | 03/14/1989 | Adachi | 364 | 300 | Jul. 11, 1984 | |
| | 5,043,878 | 08/1991 | Ooi | 712 | 42 | | |
| | 5,115,500 | 05/19/1992 | Larsen | 711 | 202 | Jan. 11, 1988 | |
| | 5,127,092 | 06/30/1992 | Gupta | 712 | 234 | Jun. 15, 1989 | |
| | 5,155,835 | 10/13/1992 | Belsan | 711 | 114 | Nov. 19, 1990 | |
| | 5,168,557 | 12/01/1992 | Shibuya | 712 | 207 | Sep. 21, 1989 | |
| | 5,241,664 | 08/31/1993 | Ohba | 711 | 121 | Jan. 7, 1991 | |
| | 5,241,638 | 08/31/1993 | Mork | 711 | 207 | Aug. 12, 1995 | |
| | 5,301,287 | 04/05/1994 | Herrell | 711 | 202 | Feb. 16, 1993 | |
| | 5,307,504 | 04/26/1994 | Robinson | 395 | 800 | Mar. 7, 1991 | |
| | 5,335,331 | 08/02/1994 | Murao | 712 | 203 | Jul. 12, 1991 | |
| | 5,339,422 | 8/16/1994 | Brender | 714 | 4 | Mar. 7, 1991 | |
| | 5,355,487 | 11/11/1994 | Keller | 717 | 127 | Jul. 23, 1993 | |
| | 5,361,340 | 11/01/1994 | Kelly | 711 | 3 | Mar. 9, 1993 | |
| | 5,386,563 | 01/31/1995 | Thomas | 712 | 228 | Oct. 13, 1992 | |
| | 5,404,476 | 04/04/1995 | Kadaira | 711 | 207 | Mar. 9, 1993 | |
| | 5,432,795 | 07/11/1995 | Robinson | 371 | 19 | May 15, 1991 | |
| | 5,454,117 | 09/26/1995 | Puziol | 395 | 800 | Aug. 25, 1993 | |
| | 5,479,616 | 12/26/1995 | Garibay | 712 | 212 | Apr. 3, 1992 | |
| | 5,481,684 | 01/02/1996 | Richter | 712 | 212 | Jul. 20 1994 | |
| | 5,481,693 | 01/02/1996 | Blomgren | 712 | 225 | Jul. 20, 1994 | |
| | 5,483,647 | 01/09/1996 | Yu | 713 | 100 | Dec 17, 1992 | |
| EXAMINER | | | DATE CONSIDERED | | | | |
| | | |  AUG 27 2004 | | | | |

Technology Center 2100

| | | | | | | | |
|--|-----------------|--|-----------------|---|----------|-------------------------------|--|
| FORM PTO-1449 | | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | | ATTY. DOCKET NO. 114596-09-4016 | | SERIAL NO. 09/425,401 | |
|  (Use several sheets if necessary) | | | | APPLICANT John S. Yates, Jr., et al. | | | |
| | | | | FILING DATE October 22, 1999 | | GROUP ART UNIT 2124 | |
| U.S. PATENT DOCUMENTS | | | | | | | |
| | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE | |
| | 5,487,156 | 01/23/1996 | Popsescu | 712 | 217 | Dec. 5, 1990 | |
| | 5,507,028 | 04/09/1996 | Liu | 395 | 375 | Jan. 9, 1995 | |
| | 5,515,518 | 06/07/1996 | Stiles | 395 | 375 | Jul. 5, 1994 | |
| | 5,542,059 | 07/30/1996 | Blomgren | 395 | 375 | Dec. 21, 1994 | |
| | 5,542,109 | 07/30/1996 | Blomgren | 395 | 800 | Aug. 31, 1994 | |
| | 5,560,013 | 09/24/1996 | Scalzi | 717 | 138 | Dec. 6, 1994 | |
| | 5,568,646 | 10/22/1996 | Jaggarr | 712 | 209 | Sep. 19, 1994 | |
| | 5,574,927 | 11/12/1996 | Scantlin | 395 | 800 | Nov. 12, 1996 | |
| | 5,574,929 | 11/12/1996 | Pieterse | 712 | 30 | Jun. 30, 1994 | |
| | 5,590,309 | 12/31/1996 | Chencinski | 395 | 472 | Apr. 1, 1994 | |
| | 5,598,546 | 01/28/1997 | Blomgren | 712 | 209 | Aug. 31, 1994 | |
| | 5,608,886 | 03/04/1997 | Blomgren | 395 | 586 | Aug. 31, 1994 | |
| | 5,613,114 | 3/1997 | Anderson | 718 | 108 | | |
| | 5,613,118 | 03/18/1997 | Heisch | 395 | 709 | Jun. 20, 1994 | |
| | 5,619,666 | 04/08/1997 | Coon | 712 | 209 | Jun. 2, 1995 | |
| | 5,625,835 | 4/1997 | Ebcioglu | 712 | 23 | | |
| | 5,628,016 | 05/06/1997 | Kukol | 717 | 140 | June 15, 1994 | |
| | 5,636,366 | 06/03/1997 | Robinson | 395 | 490 | Oct. 30, 1995 | |
| | 5,638,525 | 06/10/1997 | Hammond | 395 | 385 | Feb. 10, 1995 | |
| | 5,652,869 | 07/29/1997 | Herdeg | 703 | 23 | Dec. 28, 1994 | |
| | 5,657,474 | 08/12/1997 | Taine | 711 | 163 | Nov. 20, 1995 | |
| | 5,659,679 | 08/19/1997 | Alpert | 395 | 183.1 | May 30, 1995 | |
| | 5,659,782 | 08/19/1997 | Senter | 712 | 23 | Sep. 16, 1994 | |
| | 5,664,159 | 09/02/1997 | Richter | 395 | 500 | May 8, 1995 | |
| | 5,673,407 | 09/30/1997 | Poland | 395 | 375 | Mar. 8, 1994 | |
| | 5,678,032 | 10/14/1997 | Woods | 395 | 500 | Sept. 6, 1995 | |
| | 5,685,009 | 11/04/1997 | Blomgren | 395 | 800 | Nov. 29, 1995 | |
| | 5,715,421 | 02/03/1998 | Akiyama | 711 | 213 | Oct. 16, 1992 | |
| | 5,721,927 | 02/24/1998 | Baraz | 395 | 705 | Aug. 7, 1996 | |
| | 5,732,238 | 03/24/1998 | Sarkozy | 711 | 135 | Jun. 12, 1996 | |
| | 5,742,780 | 04/21/1988 | Caulk | 395 | 382 | Jan. 16, 1997 | |
| EXAMINER | | | DATE CONSIDERED | | | | |

RECEIVED

AUG 27 2004

Technology Center 2100

| | | | | | | | |
|--|-----------------|---|--|------------------------------------|----------|-------------------------------|--|
| FORM PTO-1449 | | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | | ATTY. DOCKET NO. 114596-09-4016 | | SERIAL NO. 09/425,401 | |
|  | | INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) | | | | | |
| | | APPLICANT John S. Yates, Jr., et al. | | FILING DATE October 22, 1999 | | GROUP ART UNIT 2124 | |
| U.S. PATENT DOCUMENTS | | | | | | | |
| | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE | |
| | 5,751,982 | 05/12/1998 | Morley | 395 | 800 | Mar. 31, 1995 | |
| | 5,754,878 | 05/19/1998 | Asghar | 395 | 800 | Mar. 18, 1996 | |
| | 5,764,947 | 06/09/1998 | Murphy | 703 | 20 | Mar. 2, 1994 | |
| | 5,774,287 | 06/30/1998 | Leonhardt | 710 | 33 | Dec. 9, 1994 | |
| | 5,774,686 | 06/30/1998 | Hammond | 395 | 385 | Jun. 7, 1995 | |
| | 5,781,750 | 07/14/1998 | Blomgren | 395 | 500 | Jan 11, 1994 | |
| | 5,781,758 | 07/14/1998 | Morley | 395 | 500 | Mar. 23, 1995 | |
| | 5,781,792 | 07/14/1998 | Asghar | 395 | 800.35 | Mar. 18, 1996 | |
| | 5,784,640 | 07/21/1998 | Asghar | 395 | 800.35 | Mar. 18, 1996 | |
| | 5,790,824 | 08/04/1998 | Asghar | 395 | 385 | Mar. 18, 1996 | |
| | 5,794,068 | 08/11/1998 | Asghar | 395 | 800.35 | Mar. 18, 1996 | |
| | 5,796,939 | 08/18/1998 | Berc | 395 | 184.01 | Mar. 10, 1997 | |
| | 5,802,272 | 09/01/1998 | Sites | 395 | 183.21 | Dec. 19, 1994 | |
| | 5,802,337 | 09/01/1998 | Fielden | 712 | 216 | Dec. 29, 1995 | |
| | 5,802,373 | 09/01/1998 | Yates | 717 | 139 | Jan. 29, 1996 | |
| | 5,805,877 | 09/08/1998 | Black | 395 | 586 | Sep. 23, 1996 | |
| | 5,812,864 | 09/22/1998 | McCoy | 703 | 26 | Dec. 6, 1995 | |
| | 5,815,720 | 9/29/1998 | Buzbee | 717 | 158 | Mar. 15, 1996 | |
| | 5,819,064 | 10/06/1998 | Razdan | 703 | 27 | Nov. 8, 1995 | |
| | 5,822,578 | 10/13/1998 | Frank | 395 | 591 | June 5, 1995 | |
| | 5,832,205 | 11/03/1998 | Kelly | 395 | 185.06 | Aug. 20, 1996 | |
| | 5,838,962 | 11/17/1998 | Larson | 395 | 586 | Apr. 9, 1997 | |
| | 5,838,978 | 11/17/1998 | Buzbee | 395 | 705 | Oct. 9, 1996 | |
| | 5,842,017 | 11/24/1998 | Hookway | 395 | 707 | Jan. 29, 1996 | |
| | 5,847,955 | 12/08/1998 | Mitchell | 700 | 86 | Jun. 23, 1997 | |
| | 5,854,913 | 12/29/1998 | Goetz | 712 | 210 | Jun. 10, 1997 | |
| | 5,864,697 | 01/26/1999 | Shiell | 712 | 240 | Jun. 27, 1997 | |
| | 5,870,763 | 02/09/1999 | Lomet | 707 | 202 | Mar. 10, 1997 | |
| | 5,884,057 | 03/16/1999 | Blomgren | 395 | 375 | May 8, 1995 | |
| | 5,901,308 | 05/04/1999 | Cohn | 712 | 244 | Mar. 18, 1996 | |
| | 5,903,750 | 05/11/1999 | Yeh | 712 | 236 | Nov. 20, 1996 | |
| EXAMINER | | | DATE CONSIDERED | | | | |
| | | | RECEIVED AUG 27 2004 Technology Center 2100 | | | | |

| | | | | | | | |
|--|-----------------|---|-----------------|------------------------------------|----------|---------------------------------|--|
| FORM PTO-1449 | | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | | ATTY. DOCKET NO. 114596-09-4016 | | SERIAL NO. 09/425,401 | |
|  | | INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) | | | | | |
| | | APPLICANT John S. Yates, Jr., et al. | | | | FILING DATE October 22, 1999 | |
| | | | | GROUP ART UNIT 2124 | | | |
| U.S. PATENT DOCUMENTS | | | | | | | |
| INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE | |
| | 5,903,751 | 05/11/1999 | Hoyt | 395 | 585 | Sep. 16, 1997 | |
| | 5,903,760 | 05/11/1999 | Farber | 395 | 707 | Jun. 27, 1996 | |
| | 5,905,855 | 05/18/1999 | Klaiber | 395 | 183.07 | Feb. 28, 1997 | |
| | 5,911,073 | 06/08/1999 | Mattson | 395 | 701 | Dec. 23, 1997 | |
| | 5,920,721 | 07/06/1999 | Hunter | 395 | 705 | Jun. 11, 1997 | |
| | 5,930,509 | 07/27/1999 | Yates | 395 | 707 | Jan. 29, 1996 | |
| | 5,935,220 | 08/10/1999 | Lumpkin | 710 | 5 | Aug. 9, 1996 | |
| | 5,941,827 | 02/1996 | Holtey | 711 | 163 | Jan. 14, 1994 | |
| | 5,949,415 | 09/07/1999 | Lin | 345 | 335 | Jun. 16, 1997 | |
| | 5,958,047 | 09/28/1999 | Panwar | 712 | 237 | Jun. 25, 1997 | |
| | 5,958,061 | 09/28/1999 | Kelly | 714 | 1 | Jul. 24, 1996 | |
| | 5,966,537 | 10/1999 | Ravichandran | 717 | 158 | | |
| | 5,968,162 | 10/19/1999 | Yard | 712 | 203 | Apr. 2, 1996 | |
| | 5,983,335 | 11/09/1999 | Dwyer | 712 | 23 | Apr. 30, 1997 | |
| | 5,999,736 | 12/07/1999 | Gupta | 717 | 158 | May 9, 1997 | |
| | 6,000,028 | 12/07/1999 | Chernoff | 712 | 226 | Jan. 29, 1996 | |
| | 6,002,872 | 12/14/1999 | Alexander | 717 | 127 | Mar. 31, 1998 | |
| | 6,003,038 | 12/14/1999 | Chen | 707 | 103R | March 31, 1997 | |
| | 6,005,551 | 12/21/1999 | Osborne | 345 | 161 | Apr. 25, 1997 | |
| | 6,006,029 | 12/21/1999 | Bianchi | 395 | 500.45 | Sept. 28, 1993 | |
| | 6,006,277 | 12/21/1999 | Talati | 709 | 313 | Jan. 26, 1996 | |
| | 6,011,908 | 01/04/2000 | Wing | 395 | 182.17 | Dec. 23, 1996 | |
| | 6,014,735 | 01/11/2000 | Chennupaty | 712 | 210 | Mar. 31, 1998 | |
| | 6,021,265 | 02/01/2000 | Nevill | 712 | 209 | Apr. 14, 1997 | |
| | 6,021,484 | 02/01/2000 | Park | 712 | 41 | Nov. 14, 1997 | |
| | 6,021,489 | 02/01/2000 | Poplingher | 712 | 239 | Jun. 30, 1997 | |
| | 6,026,478 | 02/15/2000 | Dowling | 712 | 24 | Dec. 23, 1997 | |
| | 6,029,004 | 02/22/2000 | Bortnikov | 717 | 158 | Mar. 17, 1997 | |
| | 6,029,222 | 02/22/2000 | Kamiya | 710 | 262 | Jan. 10, 1997 | |
| | 6,031,992 | 02/29/2000 | Cmelik | 395 | 705 | Jul. 5, 1996 | |
| | 6,032,247 | 02/29/2000 | Asghar | 712 | 35 | Nov. 14, 1997 | |
| EXAMINER | | | DATE CONSIDERED | | | | |

RECEIVED

AUG 27 2004

Technology Center 2100

| | | | | | | | |
|--|-----------------|---|-----------------|------------------------------------|----------|-------------------------------|--|
| FORM PTO-1449 | | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | | ATTY. DOCKET NO. 114596-09-4016 | | SERIAL NO. 09/425,401 | |
|  | | INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) | | | | | |
| | | APPLICANT John S. Yates, Jr., et al. | | FILING DATE October 22, 1999 | | GROUP ART UNIT 2124 | |
| U.S. PATENT DOCUMENTS | | | | | | | |
| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE | |
| | 6,035,393 | 03/07/2000 | Glew | 712 | 237 | May 7, 1998 | |
| | 6,044,220 | 03/28/2000 | Breternitz | 717 | 139 | Feb. 25, 1997 | |
| | 6,044,221 | 03/28/2000 | Gupta | 717 | 151 | May 9, 1997 | |
| | 6,047,363 | 04/2000 | Lewchuk | 711 | 213 | Oct. 14, 1997 | |
| | 6,047,390 | 04/2000 | Butt | 714 | 43 | | |
| | 6,052,771 | 4/18/2000 | Heller | 712 | 34 | Jan. 20, 1998 | |
| | 6,061,711 | 05/2000 | Song | 718 | 108 | | |
| | 6,070,009 | 05/30/2000 | Dean | 717 | 130 | Nov. 26, 1997 | |
| | 6,071,317 | 06/2000 | Nagel | 717 | 128 | | |
| | 6,076,144 | 6/13/2000 | Peled | 711 | 125 | Dec. 1, 1997 | |
| | 6,081,665 | 06/27/2000 | Nilsen | 717 | 116 | Dec. 19, 1997 | |
| | 6,081,890 | 06/27/2000 | Datta | 713 | 1 | Nov. 30, 1998 | |
| | Re. 36,766 | 07/04/2000 | Krauskopf | 711 | 203 | Aug. 21, 1992 | |
| | 6,091,897 | 07/18/2000 | Yates | 395 | 708 | Jan. 29, 1996 | |
| | 6,092,188 | 07/18/2000 | Corwin | 712 | 239 | Jul. 7, 1999 | |
| | 6,115,809 | 09/05/2000 | Mattson | 712 | 239 | Apr. 30, 1998 | |
| | 6,119,204 | 9/12/2000 | Chang | 711 | 141 | Jun. 30, 1998 | |
| | 6,119,218 | 9/2000 | Arora | 712 | 207 | | |
| | 6,141,683 | 10/31/2000 | Kraml | 709 | 220 | Jan. 30, 1998 | |
| | 6,154,857 | 11/28/2000 | Mann | 714 | 30 | Dec. 17, 1997 | |
| | 6,157,970 | 12/05/2000 | Gafken | 710 | 27 | Sep. 24, 1997 | |
| | 6,163,764 | 12/19/2000 | Dulong | 717 | 138 | Oct. 12, 1998 | |
| | 6,175,957 | 01/16/2001 | Ju | 717 | 156 | Dec. 9, 1997 | |
| | 6,195,748 | 02/27/2001 | Chrysos | 712 | 227 | Nov. 26, 1997 | |
| | 6,202,205 | 03/13/2001 | Saboff | 717 | 9 | Jul. 21, 1998 | |
| | 6,205,545 | 03/20/2001 | Shah | 712 | 237 | Apr. 30, 1998 | |
| | 6,212,493 | 04/03/2001 | Huggins | 703 | 22 | Dec. 1, 1998 | |
| | 6,219,774 | 04/17/2001 | Hammond | 711 | 202 | Mar. 25, 1998 | |
| | 6,226,789 | 05/01/2001 | Tye | 717 | 138 | Jan. 29, 1996 | |
| | 6,233,678 | 05/15/2001 | Bala | 712 | 240 | Nov. 5, 1998 | |
| | 6,237,073 | 05/22/2001 | Dean | 711 | 202 | Nov. 26, 1997 | |
| EXAMINER | | | DATE CONSIDERED | | | | |

RECEIVED

AUG 27 2004

Technology Center 2100

| | | | | | | | |
|---|--|--|------------|---|-------|--------------------------|-------------------------------|
| FORM PTO-1449 | | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | | ATTY. DOCKET NO. 114596-09-4016 | | SERIAL NO. 09/425,401 | |
| INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) | | | | APPLICANT John S. Yates, Jr., et al. | | | |
| | | | | FILING DATE October 22, 1999 | | GROUP ART UNIT 2124 | |
| U.S. PATENT DOCUMENTS | | | | | | | |
| | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
| | | 6,237,074 | 05/22/2001 | Phillips | 711 | 213 | May 26, 1995 |
| | | 6,240,526 | 05/29/2001 | Petivan | 714 | 11 | Oct. 27, 1999 |
| | | 6,243,804 | 06/05/2001 | Cheng | 712 | 228 | Jul. 22, 1998 |
| | | 6,253,215 | 06/26/2001 | Agesen | 707 | 206 | Aug. 17, 1998 |
| | | 6,256,728 | 07/03/2001 | Witt | 712 | 236 | Jul. 6, 1998 |
| | | 6,260,191 | 07/10/2001 | Santhanam | 717 | 9 | Apr. 7, 1997 |
| | | 6,289,445 | 09/2001 | Ekner | 712 | 244 | |
| | | 6,295,644 | 09/25/2001 | Hsu | 717 | 9 | Aug. 17, 1999 |
| | | 6,304,948 | 10/16/2001 | Motoyama | 711 | 162 | Oct. 6, 1998 |
| | | 6,308,318 | 10/23/2001 | Krishnaswamy | 717 | 139 | Oct. 7, 1998 |
| | | 6,308,321 | 10/23/2001 | Schooler | 717 | 132 | Dec. 11, 1998 |
| | | 6,336,135 | 01/01/2002 | Niblett | 709 | 215 | Nov. 19, 1998 |
| | | 6,351,784 | 02/26/2002 | Neal | 710 | 308 | Dec. 28, 1998 |
| | | 6,351,844 | 2/26/2002 | Bala | 717 | 128 | Nov. 5, 1998 |
| | | 6,353,924 | 03/05/2002 | Ayers | 717 | 128 | Feb. 8, 1999 |
| | | 6,363,336 | 03/26/2002 | Banning | 703 | 26 | Oct. 13, 1999 |
| | | 6,374,367 | 03/26/2002 | Dean | 714 | 37 | Nov. 26, 1997 |
| | | 6,374,369 | 04/16/2002 | O'Donnell | 714 | 38 | May 21, 1999 |
| | | 6,381,628 | 04/30/2002 | Hunt | 709 | 201 | Nov. 20, 1998 |
| | | 6,381,735 | 04/30/2002 | Hunt | 717 | 158 | Nov. 20, 1998 |
| | | 6,397,379 | 05/28/2002 | Yates | 717 | 140 | Oct. 28, 1999 |
| | | 6,405,327 | 06/11/2002 | Sipple | 714 | 39 | Aug. 19, 1998 |
| | | 6,453,292 | 09/17/2002 | Ramaswamy | 704 | 235 | Oct. 28, 1998 |
| | | 6,463,582 | 10/08/2002 | Lethin | 717 | 158 | Oct. 21, 1998 |
| | | 6,470,442 | 10/22/2002 | Arimilli | 712 | 32 | Jul. 30, 1999 |
| | | 6,470,492 | 10/22/2002 | Bala | 717 | 128 | May 14, 1999 |
| | | 6,473,846 | 10/29/2002 | Melchior | 711 | 170 | Jun. 16, 2000 |
| | | 6,477,683 | 11/05/2002 | Killian | 716 | 1 | Feb. 5, 1999 |
| | | 6,480,862 | 11/12/2002 | Gall | 707 | 3 | Apr. 23, 1999 |
| | | 6,481,007 | 11/2002 | Iyer | 717 | 151 | |
| | | 6,496,922 | 12/17/2002 | Borrill | 712 | 209 | Oct. 31, 1994 |
| EXAMINER | | | | DATE CONSIDERED | | | |

RECEIVED

AUG 27 2004

Technology Center 2100

| | | |
|--|----------------------------|----------------|
| FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) | ATTY. DOCKET NO. | SERIAL NO. |
| | 114596-09-4016 | 09/425,401 |
| | APPLICANT | |
| | John S. Yates, Jr., et al. | |
| | FILING DATE | GROUP ART UNIT |
| | October 22, 1999 | 2124 |

U.S. PATENT DOCUMENTS

| INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
|---------|-----------------|------------|----------|-------|----------|-------------------------------|
| | 6,496,923 | 12/17/2002 | Gruner | 712 | 213 | Dec. 17, 1999 |
| | 6,549,930 | 04/15/2003 | Chrysos | 709 | 104 | Nov. 26, 1997 |
| | 6,557,094 | 04/29/2003 | Pechanek | 712 | 209 | Sep. 28, 2001 |
| | 6,560,693 | 05/06/2003 | Puzak | 712 | 207 | Dec. 10, 1999 |
| | 6,571,331 | 05/27/2003 | Henry | 712 | 239 | Apr. 3, 2001 |
| | 6,591,414 | 07/08/2003 | Hibi | 717 | 151 | Oct. 3, 1997 |
| | 6,631,514 | 10/07/2003 | Le | 717 | 137 | |
| | 6,678,820 | 01/2004 | Kahle | 712 | 239 | Mar. 30, 2000 |
| | | | | | | |
| | | | | | | |

FOREIGN PATENT DOCUMENTS

| | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION | |
|--|---------------------|------------|---------|-------|----------|-------------|----|
| | | | | | | YES | NO |
| | EP 0 324 308 Larsen | 07/19/1989 | EPO | G06F | 9/30 | | |
| | WO 96/24895 Hammond | 08/15/1996 | PCT/US | G06F | 9/22 | | |
| | WO 97/50031 Farber | 12/31/1997 | PCT/US | G06F | 9/455 | | |
| | WO 98/13740 Wing | 04/02/1998 | PCT/US | G06F | | | |
| | WO 98/28689 Wing | 07/02/1998 | PCT/US | G06F | 11/00 | | |
| | WO 98/38575 Klaiber | 09/03/1998 | PCT/US | G06F | 11/00 | | |
| | WO 98/59292 Cmelik | 12/30/1998 | PCT/US | G06F | 9/45 | | |
| | WO 99/03037 Kelly | 01/21/1999 | PCT/US | G06F | 11/00 | | |
| | WO 99/08188 Kelly | 02/18/1999 | PCT/US | G06F | 11/00 | | |
| | WO 99/08191 Kelly | 02/18/1999 | PCT/US | G06F | 12/00 | | |
| | | | | | | | |
| | | | | | | | |

RECEIVED

AUG 27 2004

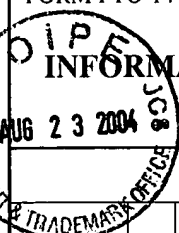
Technology Center 2100

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.)

| | |
|--|--|
| | Ammons, Ball and Larus: Exploiting Hardware Performance Counters with Flow and Context Sensitive Profiling, Proceedings of the ACM SIGPLAN 1997 Conference on Programming Language Design and Implementation, pp. 85-96 (1997) |
| | Burroughs, Preliminary Edition, B 1700 Systems Reference Manual, Burroughs Corporation (1972) |
| | Burroughs, B 1700 Systems Micro Implementation Language (MIL) Reference Manual, Burroughs Corporation (1973) |

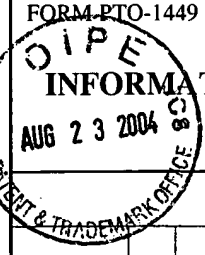
EXAMINER

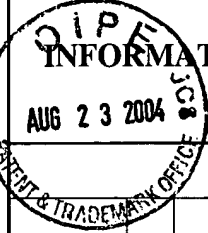
DATE CONSIDERED

| | | | | | |
|--|--|--|--|------------------------------------|--------------------------|
| FORM PTO-1449 | | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | | ATTY. DOCKET NO. 114596-09-4016 | SERIAL NO. 09/425,401 |
|  | | INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) | | | |
| | | APPLICANT John S. Yates, Jr., et al. | | | |
| | | FILING DATE October 22, 1999 | | GROUP ART UNIT 2124 | |
| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.) | | | | | |
| | | Brad Calder, Peter Feller, Alan Eustace, Value Profiling, Proceedings of 30th International Symposium on Microarchitecture (Micro-30), IEEE, pages 259-269 (December 1-3, 1997) | | | |
| | | Anton Chernoff, et al., FX!32, A Profile-Directed Binary Translator, IEEE Micro, Vol. 18 No. 2 pp. 56-64 (March/April, 1998) | | | |
| | | Compaq Computer Corp., Compiler Writer's Guide for the Alpha 21264 (1999) www.alphalinux.org/archives/axp-list/June1999/0475.html | | | |
| | | T.M. Conte, et al., "Accurate and practical profile-driven compilation using the profile buffer," Proceedings of the 29 th Annual International Symposium on Microarchitecture, Paris, France, pp. 36-45 (Dec. 1996) | | | |
| | | T.M. Conte, et al., "Hardware based profiling: An effective technique for profile-driven optimization," International Journal of Parallel Programming, vol. 24, no. 2 (Feb. 1996) | | | |
| | | T.M. Conte, et al., "Using branch handling hardware to support profile-driven optimization," Proceedings of the 27 th Annual International Symposium on Microarchitecture San Jose, CA (Dec. 1994) | | | |
| | | J.S. Cox et al., "Commercializing profile-driven optimization." Proceedings of the 28 th Hawaii International Conference on System Sciences, vol. 1 Maui, HI, pp. 221-228 (Jan. 1995) | | | |
| | | Dean, ProfileMe: Hardware Support for Instruction-Level Profiling on Out-of-Order Processors," IEEE 1997, pp. 292-302 | | | |
| | | Digital Equipment Corp., White Paper: How DIGITAL FX!32 Works (September 1997) http://www.digital.com/semiconductor/amt/fx32/fx-white.htm | | | |
| | | Ebcioglu and Altman, IBM Research Report, DAISY: Dynamic Compilation for 100% Architectural Compatibility, IBM Research Division (1996) | | | |
| | | Linda Geppert et al., Transmeta's Magic Show, IEEE Spectrum, vol. 37 no. 5, pp. 26-33 (May 2000) | | | |
| | | Ronald M. Guffin, Microdiagnostics for the Standard Computer MLP-900 Processor, IEEE Transactions on Computers, Vol. C-20 No. 7, pp. 803-808 (July 1971) | | | |
| | | Linley Gwennap, MDR Technical Library Special Report, Intel's Merced and IA-64 Technology and Market Forecast, IA-64 Software Model - Chapter 3 excerpt Microprocessor Report, MicroDesign Resources (July 20, 1998) | | | |
| | | Linley Gwennap, MDR Technical Library Special Report, Intel's Merced and IA-64: Technology and Market Forecast, Executive Summary, Microprocessor Report, MicroDesign Resources (July 20, 1998) | | | |
| | | Linley Gwennap, First Merced Patent Surfaces, Intel Document Reveals Processors With Dual Instruction Sets, Microprocessor Report, MicroDesign Resources (July 20, 1998) | | | |
| | | R.E. Hank, et al., "Region-Based Compilation: An Introduction and Motivation" Proceedings of the 28th Annual International Symposium on Microarchitecture, pp. 158-168 (Dec. 1995) | | | |
| | | Reiner W. Hartenstein, Jürgen Becker: Performance Analysis in CoDe-X Partitioning for Structural Programmable Accelerators; Proc. of 5th Int'l Workshop on Hardware/Software Co-Design CODES/CASHE '97, Braunschweig, Germany, p. 141 (March 1997) | | | |
| EXAMINER | | DATE CONSIDERED AUG 27 2004 | | | |

RECEIVED

Technology Center 2100

| | | | | | |
|--|--|--|--|------------------------------------|--------------------------|
| FORM PTO-1449 | | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | | ATTY. DOCKET NO. 114596-09-4016 | SERIAL NO. 09/425,401 |
|  | | APPLICANT John S. Yates, Jr., et al. | | | |
| | | FILING DATE October 22, 1999 | | GROUP ART UNIT 2124 | |
| (Use several sheets if necessary) | | | | | |
| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.) | | | | | |
| | | | Raymond J. Hookway, et al., Combining Emulation and Binary Translation (August 28, 1997) http://www.digital.com/info/DTJP01HM.HTM | | |
| | | | Intel Corporation, Intel Architecture Software Developer's Manual, <i>passim</i> (1997) | | |
| | | | Intel Corporation, Intel Processor Family Developer's Manual (1997), pages 1-1 to 1-6, 2-1 to 2-20 | | |
| | | | Intel Corporation, Intel Processor Family Developer's Manual (1997), vol. 3 (Architecture and Programming Manual), pages 3-1 to 3-3, 3-10 to 3-13, 12-1 to 12-27, 14-1 to 14-30 | | |
| | | | Kavi et al., A Performability Model for Soft Real-Time Systems, IEEE Proceedings of the 27th Annual Hawaii International Conference on System Sciences, pp. 571-579 (1994) | | |
| | | | Kim and Tyson: Analyzing the Working Set Characteristics of Branch Execution, Proceedings of the 31st Annual ACM/IEEE International Symposium on Microarchitecture, pp. 49-58 (Dec. 1998) | | |
| | | | Monica S. Lam, Robert P. Wilson, Limits of Control Flow on Parallelism, Proceedings of the 19th Annual International Symposium on Computer Architecture, p.46-57 (May 1992) | | |
| | | | Larus and Schnarr: EEL: Machine-Independent Executable Editing, EEL: Machine-independent executable editing. In Proceedings of the ACM SIGPLAN Conference on Programming Language Design and Implementation (PLDI), 1995 | | |
| | | | Harold W. Lawson, Jr., et al., Functional Characteristics of a Multilingual Processor, IEEE Transactions on Computers, Vol. C-20, No. 7, pp. 732-742 (July, 1971) | | |
| | | | M. Lipasti and J. Shen. Exceeding the Data-Flow Limit Via Value Prediction, 29th International Symposium on Microarchitecture, pages 226-237, IEEE (Dec. 1996) | | |
| | | | K.N.P. Menezes, "Hardware-based profiling for program optimization," Ph.D. thesis, Department of Electrical and Computer Engineering, North Carolina State University, Raleigh, North Carolina (1997) | | |
| | | | Nanodata Corporation, QM-1 Hardware level User's Manual (1975) | | |
| | | | Nanodata Corporation, QM-2 Processor (1976) | | |
| | | | Parkinson and Parameswaran, Profiling in the ASP Codesign Environment, Proceedings of the 8th International Symposium on System Synthesis, Cannes, France, p.128-133 (Sept. 1995) | | |
| | | | Robert F. Rosin, Contemporary Concepts of Microprogramming and Emulation, ACM Computing Surveys, Vol. 1 No. 4, pp. 197-212 (December 1969) | | |
| | | | Robert F. Rosin, An Environment for Research in Microprogramming and Emulation, Communications of the ACM, Vol. 15 No. 8, pp. 748-760 (August 1972) | | |
| | | | Standard Computer Corp., IC-9000 Central Processing Unit - Principles of Operation (undated - possibly 1969) | | |
| EXAMINER | | | DATE CONSIDERED | | |

| | | | | | |
|--|--|--|--|---|--------------------------|
| FORM PTO-1449 | | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | | ATTY. DOCKET NO. 114596-09-4016 | SERIAL NO. 09/425,401 |
|  <p>INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)</p> | | | | APPLICANT John S. Yates, Jr., et al. | |
| | | | | FILING DATE October 22, 1999 | GROUP ART UNIT 2124 |
| OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Papers, Etc.)</i> | | | | | |
| | | | | Veen: Dataflow Machine Architecture, ACM Computing Surveys vol. 18 no. 4 pp. 365-96 (December 1986) | |
| | | | | W.T. Wilner, Design of the Burroughs B1700, Fall Joint Computer Conference, pp. 489-497 (1972) | |
| | | | | W.T. Wilner, Burroughs B1700 Memory Utilization, Fall Joint Computer Conference, pp. 579-586 (1972) | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| EXAMINER | | | | DATE CONSIDERED | |